



Technical Overview of TMDL Phase 2

**Lake Tahoe TMDL Symposium
December 10, 2004**



Key Considerations

- ❖ Work in progress - follows directly from load reduction targets established in Phase 1
- ❖ Linkage to Phase 1 planning tools (e.g. watershed model and clarity model)
- ❖ Requesting significant stakeholder involvement
- ❖ Funding - USACE, SNPLMA, USEPA*



Key Considerations

- ❖ Developing new scientific/engineering tools to help guide/plan pollutant reduction efforts to meet TMDL loading targets
- ❖ Linkage to Pathways 2007
- ❖ Central element of - **Basin-wide Water Quality Management System**

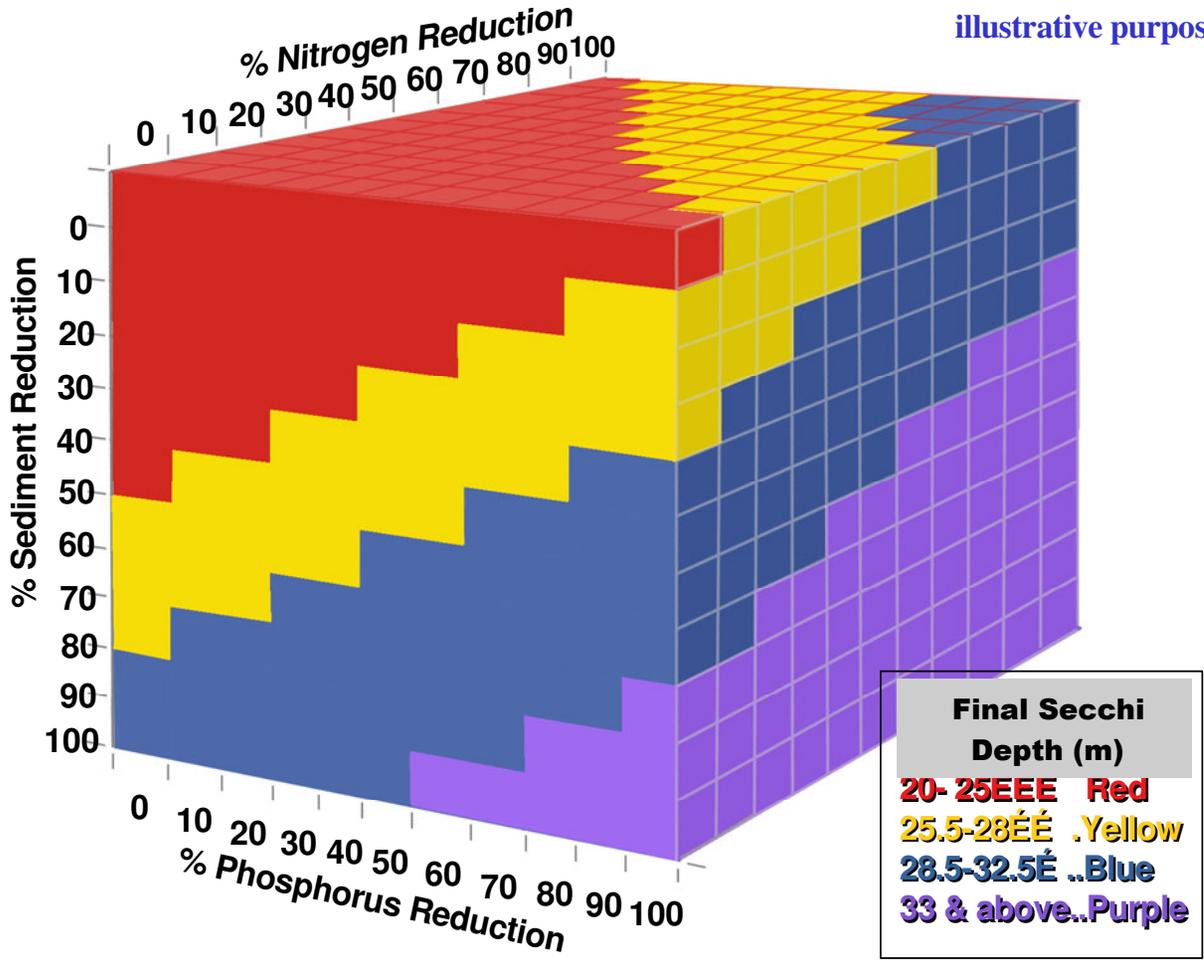


Major Phase 2 Elements

- Allocation of Pollutant Load Reduction
- Identify Load Reduction Opportunities
- Implementation Plan
- Develop a Load Reduction Tracking System

Conceptual Load Reduction Model

Parameters are for illustrative purposes only



Introduction to Tools

- Load Reduction Matrix -
 - All feasible BMPs - add new technologies
 - Central location for BMP effectiveness data
 - Informed and updated by monitoring
 - Costs, constraints, etc.
- Methodologies to Estimate Pollutant Load Reduction -
 - Considers a project a collection of individual BMPs
 - Provides a numeric value for project
 - Cornerstone for crediting and TMDL progress tracking
- BMP Model -
 - Load reduction on basin-wide scale
 - Uses analyses from other tools
 - Module within Watershed Model



Introduction to Tools

- Urban Hydrology Model
 - Urban areas influenced by changes to drainage
 - More accurate modeling for routing through BMPs

- Pollutant Trading System -
 - Key feature of EPA Watershed Grant
 - Addresses feasibility in Tahoe basin
 - Creativity in strategies

- Pollutant Load Tracking System -
 - Up-to-date assessment of progress towards meeting TMDL goals
 - Includes an evaluation protocol if milestones are not met



Phase 2 Integration

- Linkage among Phase 2 tools and between Phase 1 and Phase 2 tools
- Basin-wide Reduction Plans
- Pathways 2007 Planning Process

